

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/082629 A1

(51) International Patent Classification⁷: B41J 2/14 (74) Agent: GARRAT, Peter, Douglas; Mathys & Squire, 120 Holborn, London EC1N 2SQ (GB).

(21) International Application Number: PCT/GB2005/000739 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, L.C, LK, L.R, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PI, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 28 February 2005 (28.02.2005) (82) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English (26) Publication Language: English

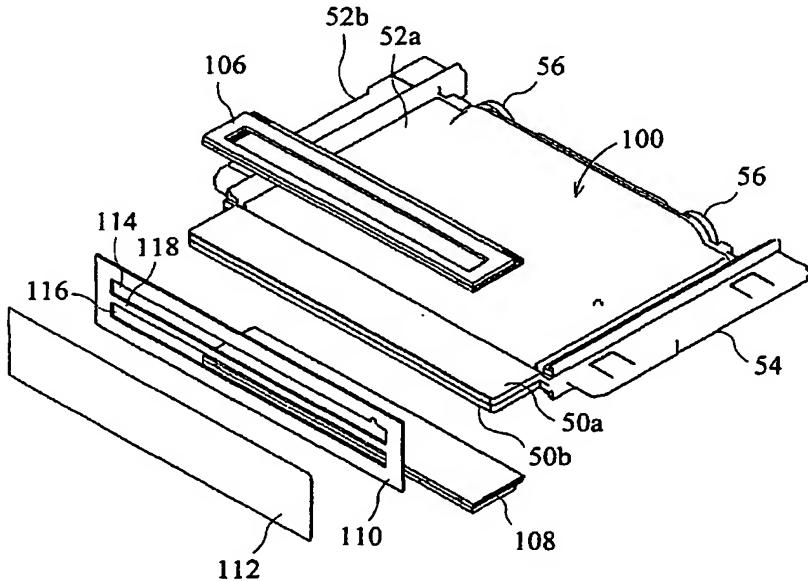
(30) Priority Data: 0404231.3 26 February 2004 (26.02.2004) GB

(71) Applicant (for all designated States except US): Xaar TECHNOLOGY LIMITED (GB/GB); Science Park, Milton Road, Cambridge, Cambridgeshire CB4 0XR (GB).

(72) Inventors; and (75) Inventors/Applicants (for US only): ZAPKA, Werner (DE/SE); c/o XaarJet AB, PO Box 516, S-175 26 Jarfalla (SE). CORRALL, John (GB/GB); 4 Park Avenue, St Ives, Cambridgeshire PE27 5JW (GB).

{Continued on next page}

(54) Title: DROPLET DEPOSITION APPARATUS



WO 2005/082629 A1

(57) Abstract: Ink jet apparatus has two piezoelectric actuators (106, 108) arranged back-to-back on parallel thermal management surfaces (50a, 50b) of a water-cooled chassis (100). The chassis is formed by the bringing together of two concave plastic moulded parts (102, 104), having high thermal conductivity. A common nozzle (112) plate attached to the two actuators helps to ensure accurate nozzle alignment.



Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.